```
=> s donepezil/cn
L1           1 DONEPEZIL/CN

=> fil caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       5.83       6.05

FILE 'CAPLUS' ENTERED AT 16:33:15 ON 22 JAN 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)
```



```
FILE COVERS 1907 - 22 Jan 2009  VOL 150 ISS 4
FILE LAST UPDATED: 21 Jan 2009  (20090121/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s l1/p
L2           49 L1/P

=> s l2 and ?sulfonic
         208517 ?SULFONIC
L3            7 L2 AND ?SULFONIC

=> d bib hit 1-7

L3   ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2009 ACS on STN
AN   2007:1413848  CAPLUS
DN   148:214917
TI   Highly Chemoselective Metal-Free Reduction of Tertiary Amides
AU   Barbe, Guillaume; Charette, Andre B.
CS   Departement de Chimie, Universite de Montreal, Montreal, QC, H3C 3J7, Can.
SO   Journal of the American Chemical Society (2008), 130(1), 18-19
     CODEN: JACSAT; ISSN: 0002-7863
PB   American Chemical Society
DT   Journal
LA   English
OS   CASREACT 148:214917
RE.CNT  33    THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
```

AB This communication describes the chemoselective metal-free reduction of tertiary amides to the corresponding amines. Hantzsch ester is used as a mild reducing agent for the reduction of trifluoromethanesulfonic anhydride activated amides providing the tertiary amines with high functional group tolerance.

IT 606-87-1P 620-40-6P 772-54-3P 1149-24-2P 2107-69-9P 2905-56-8P 3612-20-2P 4383-26-0P 6037-73-6P 15429-08-0P 15429-10-4P 24228-40-8P 27376-59-6P 40110-55-2P 94886-07-4P 120014-06-4P 148963-14-8P 153866-97-8P 175203-64-2P 1005340-92-0P 1005340-93-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of amines via chemoselective metal-free reduction of tertiary amides with high functional group tolerance)

L3 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:565068 CAPLUS
DN 147:9804
TI Process for making donepezil via a new acid addition salt intermediate, particularly 5,6-dimethoxy-2-[1-(4-pyridinyl)methylidene]indan-1-one tosylate
IN Pospisilik, Karel
PA Synthon B.V., Neth.
SO PCT Int. Appl., 29pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007057226	A2	20070524	WO 2006-EP11129	20061120
	WO 2007057226	A3	20070823		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
	US 20070135644	A1	20070614	US 2006-561673	20061120
	EP 1954676	A2	20080813	EP 2006-829080	20061120
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
PRAI	US 2005-737751P	P	20051118		
	WO 2006-EP11129	W	20061120		

OS CASREACT 147:9804
AB The invention is related to the preparation of Anti-Alzheimer drug donepezil I via a new intermediate salt II+•X- [X = counter ion], especially the tosylate, in good yield and high purity. Specifically, donepezil was prepared by hydrogenation of an acid addition salt II+•X- with H2 in the presence of Pd/C, and alkylation of piperidine with a benzyl halide. Thus, reacting 5,6-dimethoxyindan-1-one with pyridine-4-carboxaldehyde in the presence of p-toluenesulfonic acid, hydrogenation of II•TsOH with H2 in the presence of Pd/C at 10 bar for 10 h, alkylation of piperidine-indanone III with benzyl chloride in toluene in the presence of NaHCO3 at 145° for 8 h, isolation of donepezil by extraction with Et acetate, and acidulation with a methanolic solution of HCl gave

I•HCl•H2O.
IT 120014-06-4P, Donepezil
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation of donepezil via a new acid addition salt intermediate, especially
dimethoxy pyridinylmethylideneindanone tosylate)

L3 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:1155536 CAPLUS
DN 143:427353
TI Process for production of highly pure donepezil hydrochloride
IN Gutmqan, Arie L.; Etinger, Marina; Tishin, Boris
PA Israel
SO U.S. Pat. Appl. Publ., 10 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20050239837	A1	20051027	US 2005-112002	20050422
	US 20040192919	A1	20040930	US 2003-640419	20030814
PRAI	IL 2002-151253	A	20020814		
	US 2003-444653P	P	20030204		
	US 2003-640419	A2	20030814		

IT 75-75-2, Methanesulfonic acid 1314-56-3, Phosphorus pentoxide, reactions 1493-13-6, Trifluoromethanesulfonic acid
7446-70-0, Aluminum chloride, reactions 7637-07-2, Boron fluoride, reactions 7646-85-7, Zinc chloride, reactions 7647-01-0, Hydrogen chloride, reactions 7664-39-3, Hydrogen fluoride, reactions 7664-93-9, Sulfuric acid, reactions 7699-45-8, Zinc bromide 7719-09-7, Thionyl chloride 7719-12-2, Phosphorus trichloride 7727-15-3, Aluminum bromide 7789-21-1, Fluorosulfonic acid 7790-94-5,
Chlorosulfonic acid 7791-25-5, Sulfuryl chloride 10025-87-3, Phosphorus oxychloride 10026-13-8, Phosphorus pentachloride 11130-18-0, Titanium chloride 259170-03-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of highly pure donepezil hydrochloride polymorph)
IT 120014-06-4P, Donepezil
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of highly pure donepezil hydrochloride polymorph)

L3 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:429404 CAPLUS
DN 142:447125
TI Process for preparation of donepezil and its derivatives
IN Zhang, Hesheng
PA Tianjin Hemey Bio-Tech Co., Ltd., Peop. Rep. China
SO PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DT Patent
LA Chinese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005044805	A1	20050519	WO 2004-CN1227	20041028
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				

LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG

	CN 1613848	A	20050511	CN 2003-10106920	20031105
	CN 1280273	C	20061018		
	US 20070072905	A1	20070329	US 2006-595609	20060430
PRAI	CN 2003-10106920	A	20031105		
	WO 2004-CN1227	W	20041028		

OS CASREACT 142:447125; MARPAT 142:447125
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
AB A process for the preparation of title compds. of formula I [wherein R1-R4 = H, F, alkyl, alkoxy; R5 = (un)substituted Ph; n = 0-2] is disclosed. For example, reaction of 4-pyridylaldehyde with 5,6-dimethoxyindan-1-one and 4-methylbenzenesulfonic acid gave II•TsOH in 94% yield. PtO2-catalyzed hydrogenation of II•TsOH (94%) and followed by alkylation with benzyl bromide provided I (R1 = R4 = H, R2 = R3 = OMe, n = 0, R5 = Ph) in 96% yield.
IT 120014-06-4P, Donepezil
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of donepezil and its derivs. via reaction of 5,6-dimethoxyinden-1-one with 4-pyridylaldehyde)
IT 75-75-2, Methanesulfonic acid 98-11-3, Benzenesulfonic acid, reactions 100-39-0, Benzyl bromide 100-52-7, Benzaldehyde, reactions 104-15-4, 4-Methylbenzenesulfonic acid, reactions 872-85-5, 4-Pyridinecarboxaldehyde 2107-69-9, 5,6-Dimethoxyindan-1-one 4803-74-1 7647-01-0, Hydrochloric acid, reactions 7664-93-9, Sulfuric acid, reactions 13598-36-2, Phosphonic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of donepezil and its derivs. via reaction of 5,6-dimethoxyinden-1-one with 4-pyridylaldehyde)

L3 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:300285 CAPLUS
DN 142:341841
TI Water soluble nanoparticles and method for their production
IN Goldshtein, Rina; Kamburg, Roman; Ratner, Galina; Kopylov, Michael; Zelkind, Ilya; Goldshtein, Vadim; Skylarsky, Olga; Tulbovich, Boris; Stern, Erwin
PA Solubest Ltd., Israel
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 9

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005030257	A2	20050407	WO 2004-IL910	20040929
	WO 2005030257	A3	20050714		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU	2004275594	A1	20050407	AU 2004-275594	20040929
CA	2540104	A1	20050407	CA 2004-2540104	20040929
EP	1670516	A2	20060621	EP 2004-770581	20040929
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
JP	2007507489	T	20070329	JP 2006-531012	20040929
PRAI US	2003-507623P	P	20030930		
WO	2004-IL910	W	20040929		

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 9002-89-5DP, Polyvinyl alcohol, inclusion complexes with azithromycin
9003-01-4DP, PolyAcrylic acid, inclusion complexes with itraconazole
9003-39-8DP, Polyvinylpyrrolidone, inclusion complexes with amphiphilic drugs 9005-25-8DP, Starch, inclusion complexes with clarithromycin
9005-37-2DP, Propylene glycol alginate, inclusion complexes with drugs
9005-38-3DP, inclusion complexes with clarithromycin 9012-76-4DP, Chitosan, inclusion complexes with clarithromycin 9063-38-1DP, Sodium starch glycolate, inclusion complexes with donepezil 22916-47-8DP, Miconazole, inclusion complexes with amphiphilic polymers 23593-75-1DP, Clotrimazole, inclusion complexes with amphiphilic polymers
25087-26-7DP, Polymethacrylic acid, inclusion complexes with drugs
25119-83-9DP, Acrylic acid butyl acrylate copolymer, inclusion complexes with itraconazole 25751-21-7DP, Acrylic acid methacrylic acid copolymer, inclusion complexes with drugs 27220-47-9DP, Econazole, inclusion complexes with amphiphilic polymers 27523-40-6DP, Isoconazole, inclusion complexes with amphiphilic polymers 28210-41-5DP, Poly(4-styrenesulfonic acid), inclusion complexes with amphiphilic drugs
33069-62-4DP, Paclitaxel, inclusion complexes with amphiphilic polymers
33069-62-4DP, Paclitaxel, inclusion complexes with gelatin 35554-44-0DP, Imazalil, inclusion complexes with amphiphilic polymers 41083-11-8DP, Azocyclotin, inclusion complexes with amphiphilic polymers 42509-80-8DP, Isazophos, inclusion complexes with amphiphilic polymers 43121-43-3DP, Triadimefon, inclusion complexes with amphiphilic polymers 55179-31-2DP, Bitertanol, inclusion complexes with amphiphilic polymers 55219-65-3DP, Triadimenol, inclusion complexes with amphiphilic polymers 60207-90-1DP, Propiconazole, inclusion complexes with amphiphilic polymers
64211-45-6DP, Oxiconazole, inclusion complexes with amphiphilic polymers
65277-42-1DP, Ketoconazole, inclusion complexes with amphiphilic polymers
65899-73-2DP, Tioconazole, inclusion complexes with amphiphilic polymers
66246-88-6DP, Penconazole, inclusion complexes with amphiphilic polymers
67129-08-2DP, Metazachlor, inclusion complexes with amphiphilic polymers
67747-09-5DP, Prochloraz, inclusion complexes with amphiphilic polymers
67915-31-5DP, Terconazole, inclusion complexes with amphiphilic polymers
68694-11-1DP, Triflumizole., inclusion complexes with amphiphilic polymers
72479-26-6DP, Fenticonazole, inclusion complexes with amphiphilic polymers
76674-21-0DP, Flutriafol, inclusion complexes with amphiphilic polymers
76738-62-0DP, inclusion complexes with amphiphilic polymers
79983-71-4DP, Hexaconazole, inclusion complexes with amphiphilic polymers
81103-11-9DP, Clarithromycin, inclusion complexes with starch
84625-61-6DP, Itraconazole, inclusion complexes with amphiphilic polymers
84625-61-6DP, Itraconazole, inclusion complexes with starch
85509-19-9DP, Flusilazole, inclusion complexes with amphiphilic polymers
86386-73-4DP, Fluconazole, inclusion complexes with amphiphilic polymers
88671-89-0DP, Myclobutanil, inclusion complexes with amphiphilic polymers
94361-06-5DP, Cyproconazole, inclusion complexes with amphiphilic polymers
102676-47-1DP, Fadrozole., inclusion complexes with amphiphilic polymers

107534-96-3DP, Tebuconazole, inclusion complexes with amphiphilic polymers 112809-51-5DP, Letrozole, inclusion complexes with amphiphilic polymers 114977-28-5DP, Docetaxel, inclusion complexes with amphiphilic polymers 119446-68-3DP, Difenoconazole, inclusion complexes with amphiphilic polymers 120011-70-3DP, Donepezilhydrochloride, inclusion complexes with amphiphilic polymers 120014-06-4DP, Donepezil, inclusion complexes with starch 120511-73-1DP, Anastrozole, inclusion complexes with amphiphilic polymers 125116-23-6DP, Metconazole, inclusion complexes with amphiphilic polymers 128621-72-7DP, Carfentrazone, inclusion complexes with amphiphilic polymers 129731-10-8DP, Vorozole, inclusion complexes with amphiphilic polymers 131983-72-7DP, Triticonazole, inclusion complexes with amphiphilic polymers 133855-98-8DP, Epoxiconazole, inclusion complexes with amphiphilic polymers 136426-54-5DP, Fluquinconazole, inclusion complexes with amphiphilic polymers
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(water soluble nanoparticles and method for their production)

L3 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:67540 CAPLUS
DN 142:336108
TI Meldrum's Acids as Acylating Agents in the Catalytic Intramolecular Friedel-Crafts Reaction
AU Fillion, Eric; Fishlock, Dan; Wilsily, Ashraf; Goll, Julie M.
CS Department of Chemistry, University of Waterloo, Waterloo, ON, N2L 3G1, Can.
SO Journal of Organic Chemistry (2005), 70(4), 1316-1327
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 142:336108
RE.CNT 196 THERE ARE 196 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT 75-77-4, Trimethylsilyl chloride, uses 76-05-1, Trifluoroacetic acid, uses 109-63-7, Boron trifluoride etherate 1493-13-6, Trifluoromethanesulfonic acid 2926-27-4, Trifluoromethanesulfonic acid potassium salt 27607-77-8, Trimethylsilyl triflate 33454-82-9, Trifluoromethanesulfonic acid lithium salt 34946-82-2, Trifluoromethanesulfonic acid copper(2+) salt 54761-04-5, Trifluoromethanesulfonic acid ytterbium(3+) salt 60871-83-2, Magnesium triflate 74974-61-1, Aluminum triflate 133395-16-1, Magnesium trifluoromethanesulfonamide Mg[(CF3SO3)2N]2 139177-62-1, Trifluoromethanesulfonic acid dysprosium(3+) salt 144026-79-9, Trifluoromethanesulfonic acid scandium(3+) salt
RL: CAT (Catalyst use); USES (Uses)
(preparation of 1H-inden-1-one derivs. and homologs by catalytic intramol. Friedel-Crafts reaction using benzyl Meldrum's acid derivs. as reactants)
IT 120014-06-4P, Donepezil
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of di(hydro)di(methoxy)[[(phenylmethyl)piperidinyl]methyl]-1H-inden-1-one (donepezil) by catalytic intramol. Friedel-Crafts reaction using benzyl Meldrum's acid derivative as reactant)

L3 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2004:162668 CAPLUS
DN 140:217513
TI Process for the production of highly pure donepezil hydrochloride

IN Tishin, Boris; Vilensky, Alexander; Potyabin, Pavel
PA Finetech Laboratories Ltd., Israel; Gutman, Arie L.; Nisnevich, Gennady
SO PCT Int. Appl., 12 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004016589	A2	20040226	WO 2003-IL665	20030811
	WO 2004016589	A3	20040610		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003249565	A1	20040303	AU 2003-249565	20030811
PRAI	IL 2002-151253	A	20020814		
	WO 2003-IL665	W	20030811		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 75-75-2, Methanesulfonic acid 1314-56-3, Phosphorus pentoxide, reactions 1493-13-6, Triflic acid 7446-70-0, Aluminum chloride, reactions 7550-45-0, Titanium chloride, reactions 7637-07-2, Boron fluoride, reactions 7646-85-7, Zinc chloride, reactions 7664-39-3, Hydrogen fluoride, reactions 7664-93-9, Sulfuric acid, reactions 7699-45-8, Zinc bromide 7719-09-7, Thionyl chloride 7719-12-2, Phosphorus trichloride 7727-15-3, Aluminum bromide 7789-21-1, Fluorosulfonic acid 7790-94-5, Chlorosulfonic acid 7791-25-5, Sulfuryl chloride 10025-87-3, Phosphorus oxychloride 10026-13-8, Phosphorus pentachloride
RL: RGT (Reagent); RACT (Reactant or reagent)
(in the intramol. cyclocondensation reaction of 2-(3,4-dimethoxybenzyl)-3-(N-benzyl- 4-piperidine)propionic acid or its salts into donepezil)

IT 120014-06-4P, Donepezil
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for the production of highly pure donepezil hydrochloride)